Kennissymposium 13 maart 2020

Voedselvisie:

Food for Thought



#foodforthought #voedselvisie

JOSEPH POORE OXFORD UNIVERSITEIT

VOEDSELVOETAFDRUK: IMPACT VAN VOEDSEL OP DE PLANEET (INCL. Q&A)





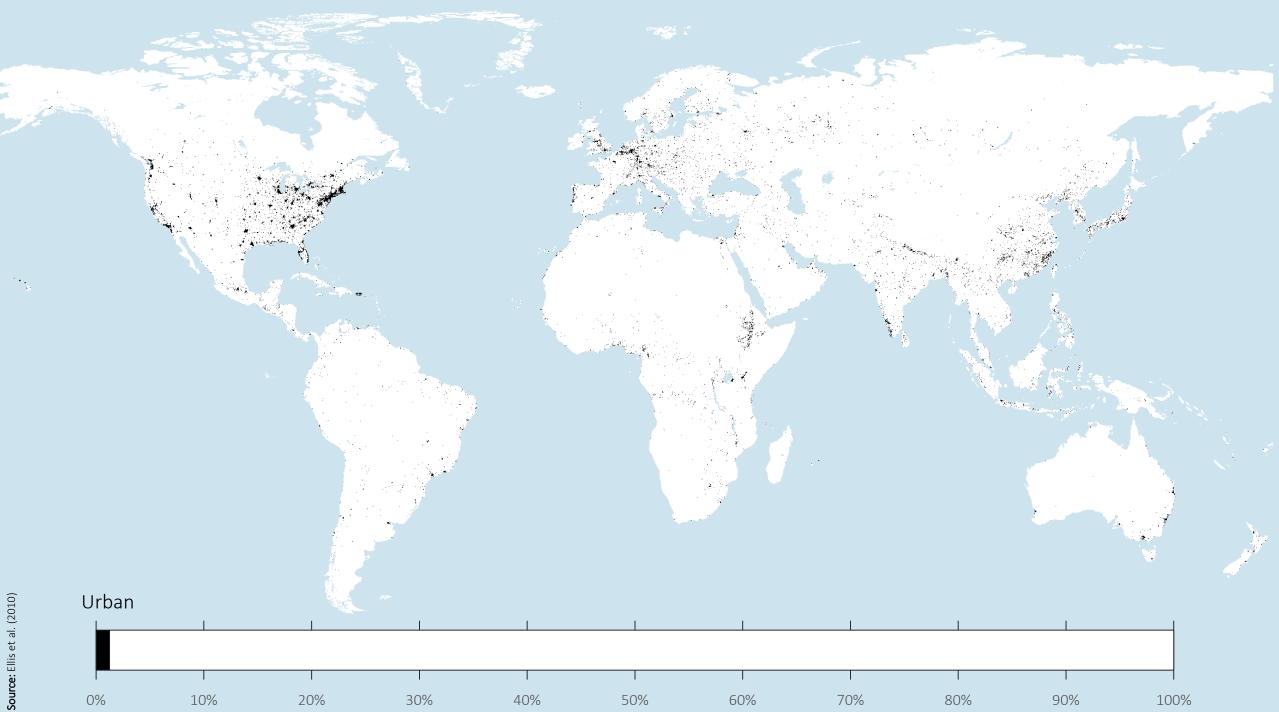
#foodforthought #voedselvisie

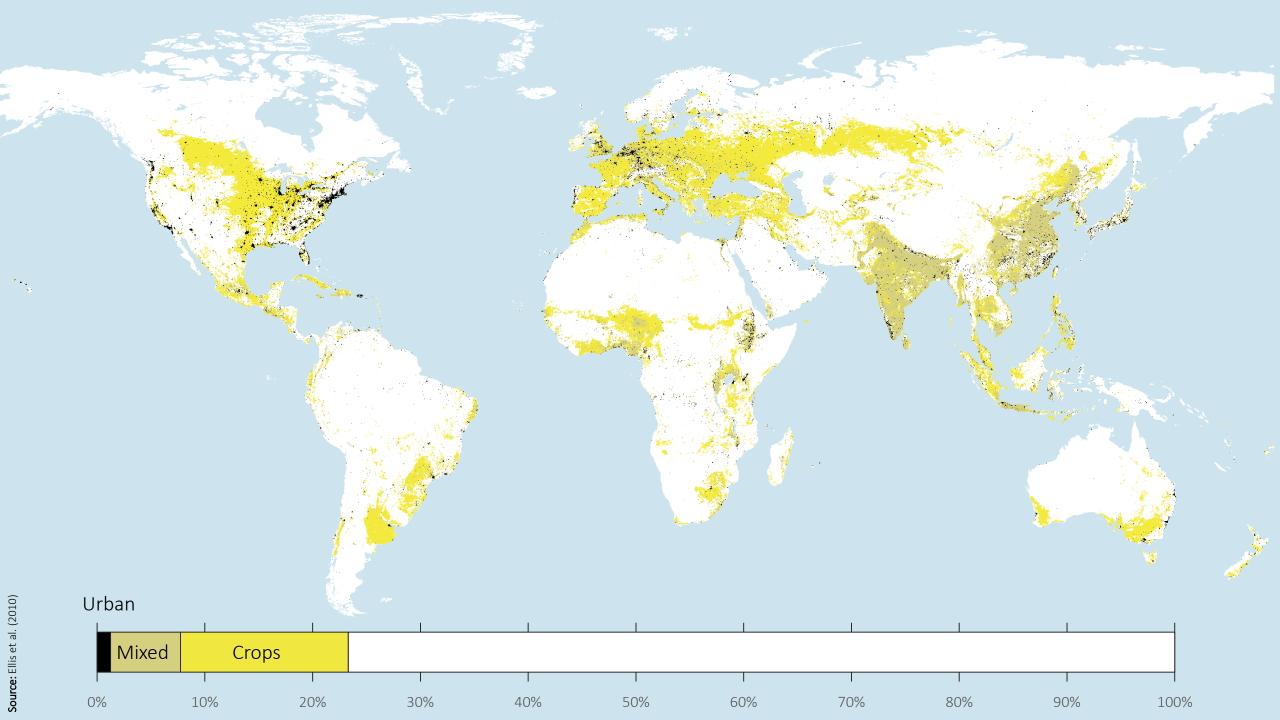


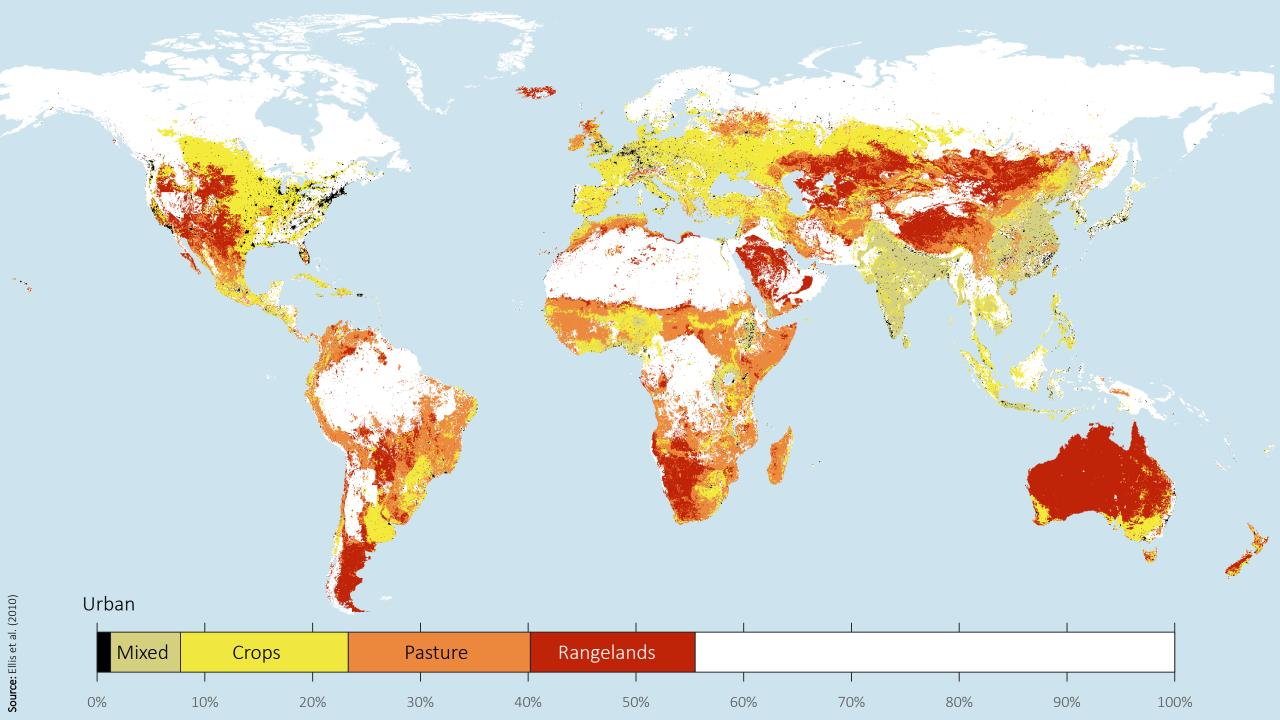
Food's Environmental Impacts and an Integrated Solution Presentation to Party for the Animals Conference, 13th March 2020

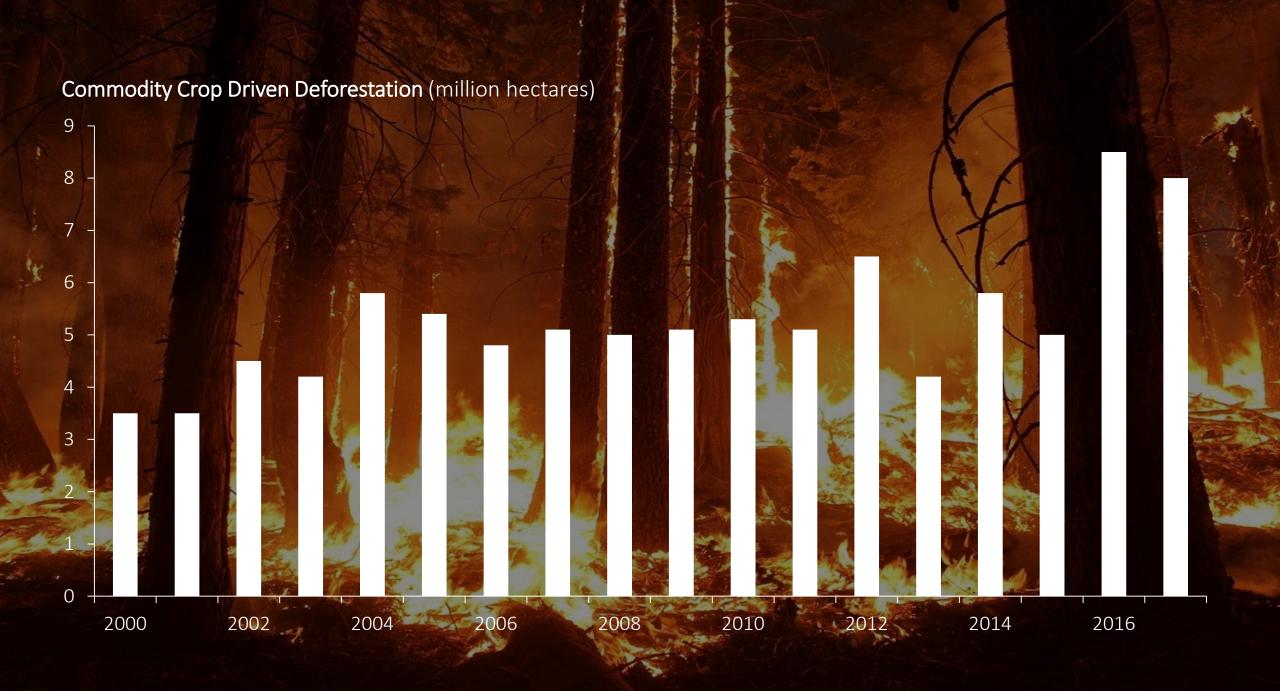
Joseph Poore







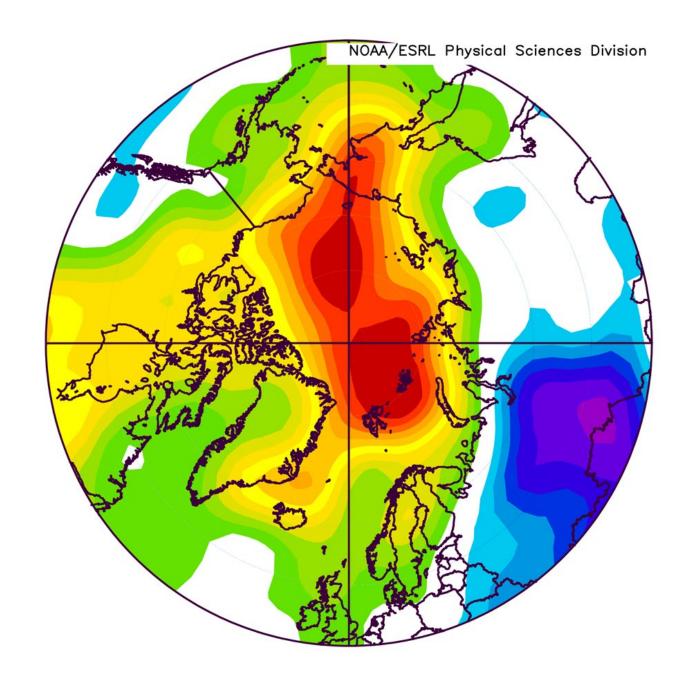








Greenhouse Gas Emissions



5

4

3

2

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-4

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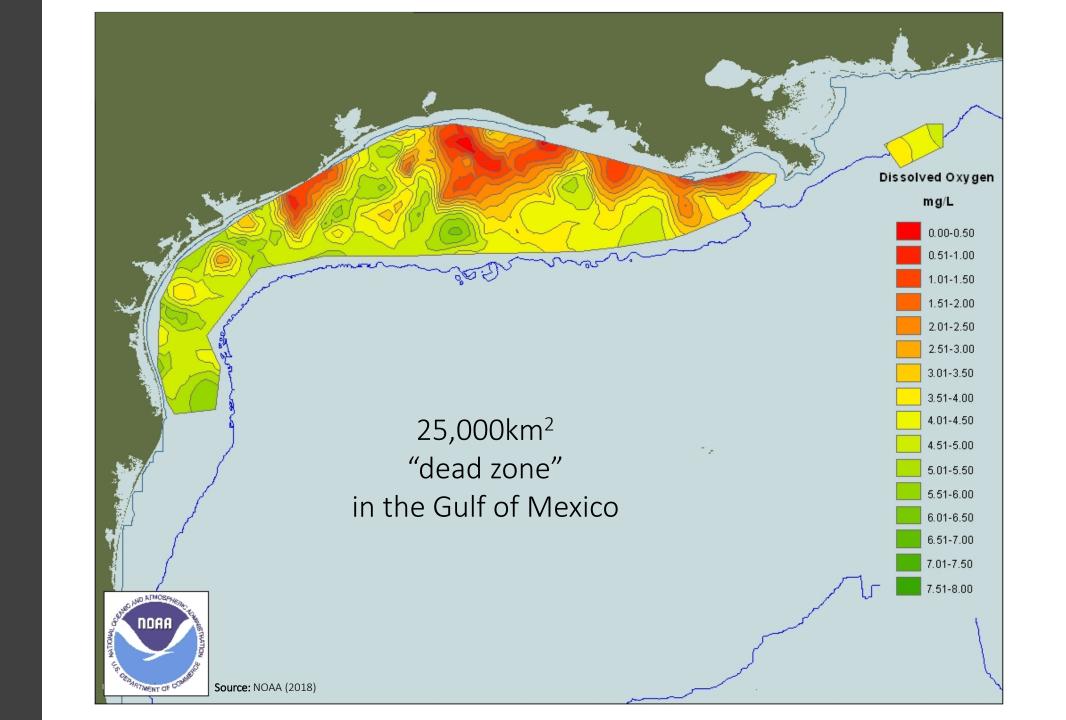


Source: Poore & Nemecek (2018)

Source: NOAA (2018)



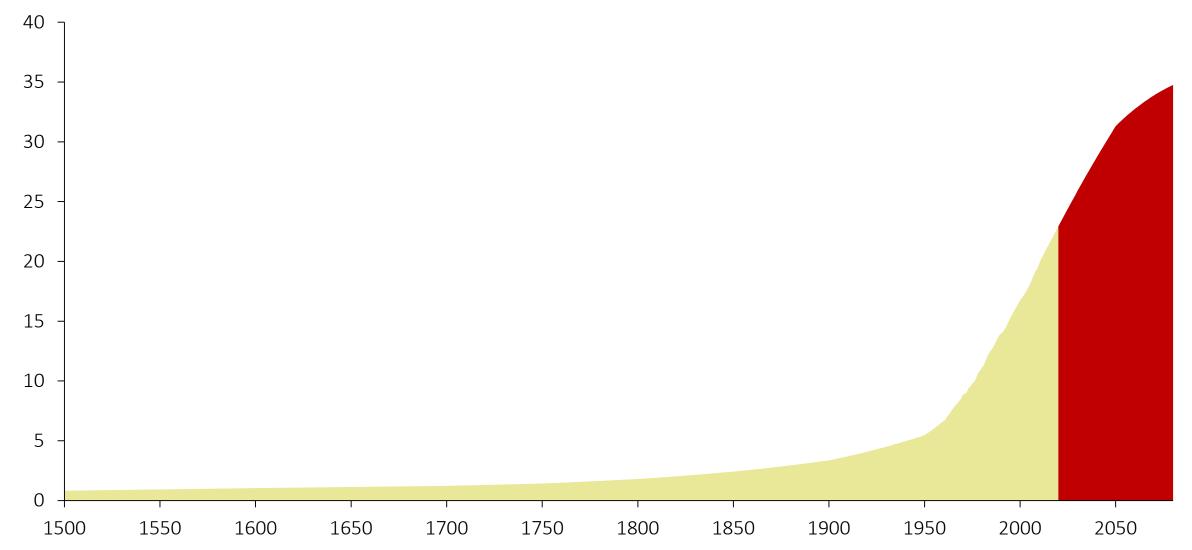
Eutrophication



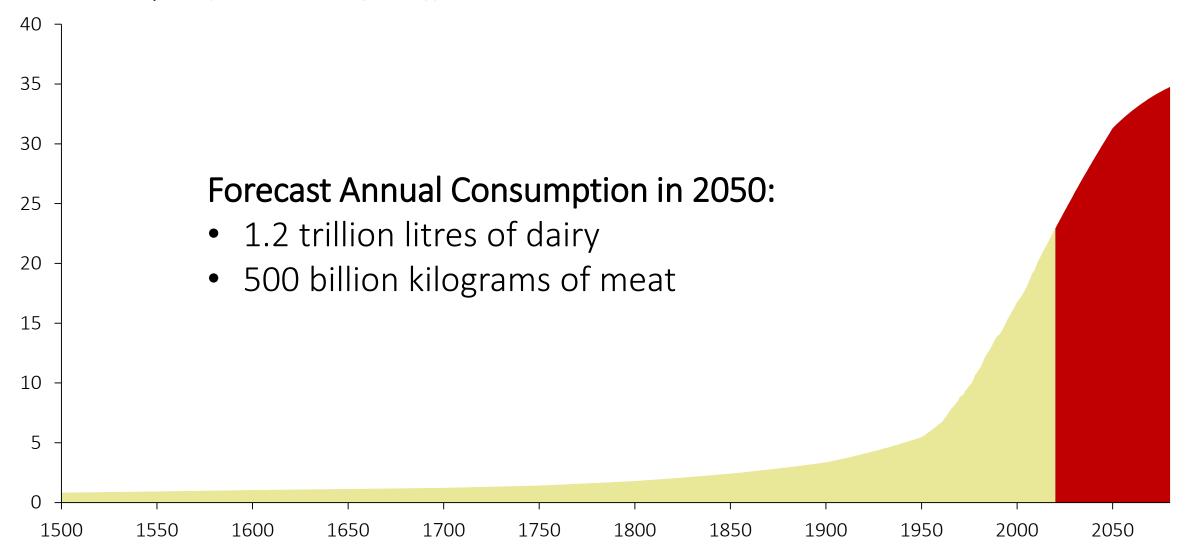
78% Food Scarcity-Weighted Water Use







Food Consumption (trillion calories per day)



Food Consumption (trillion calories per day)

570 million farms

>2 million crop varieties in seed vaults

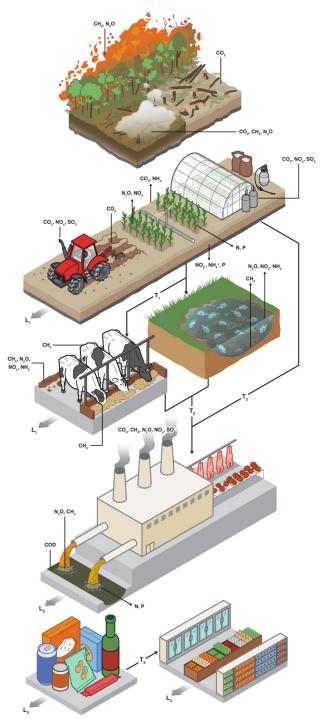
Food produced in every climate and soil, with optimal practices for each 430 brands 14 companies own 54 of the largest brands

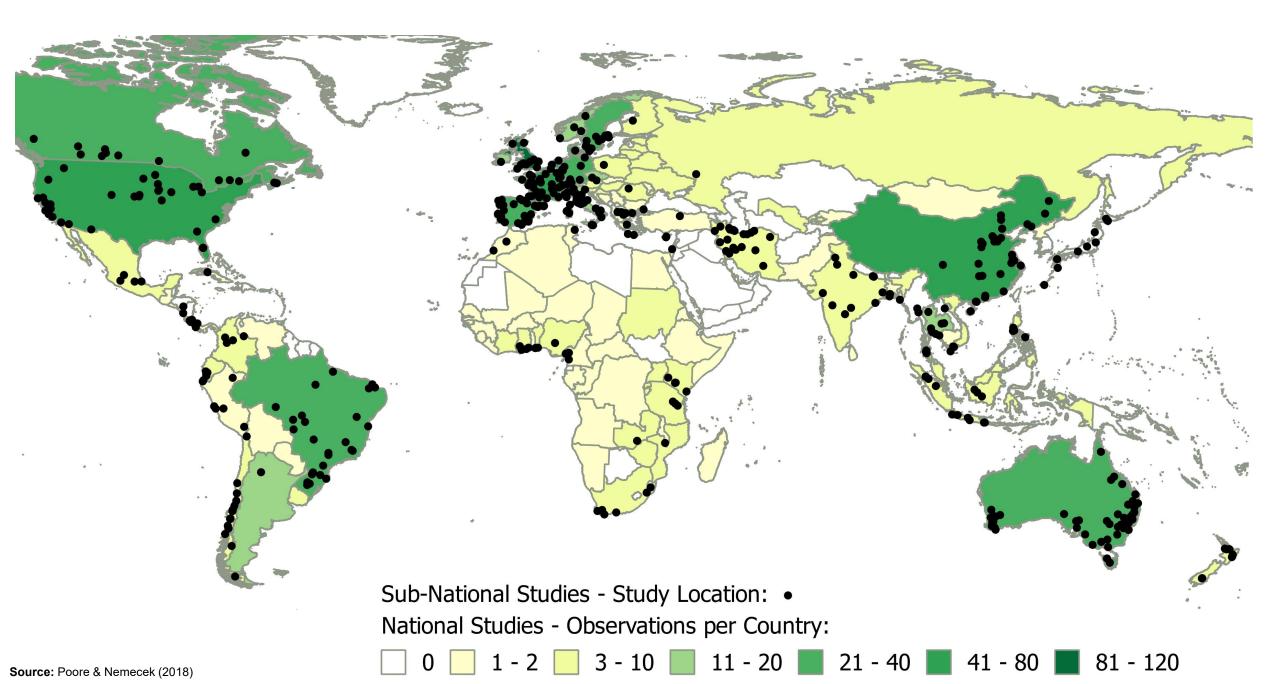


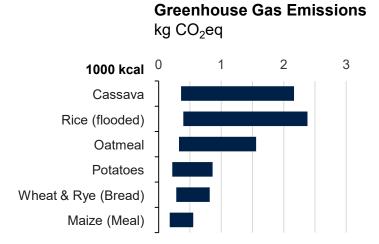
Summary

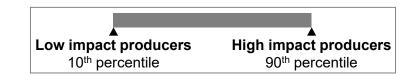
- 1. Agriculture sits at the heart of almost all environmental problems
- 2. Achieving sustainability will become harder given growing demand
- 3. Solutions must be effective over millions of diverse producers



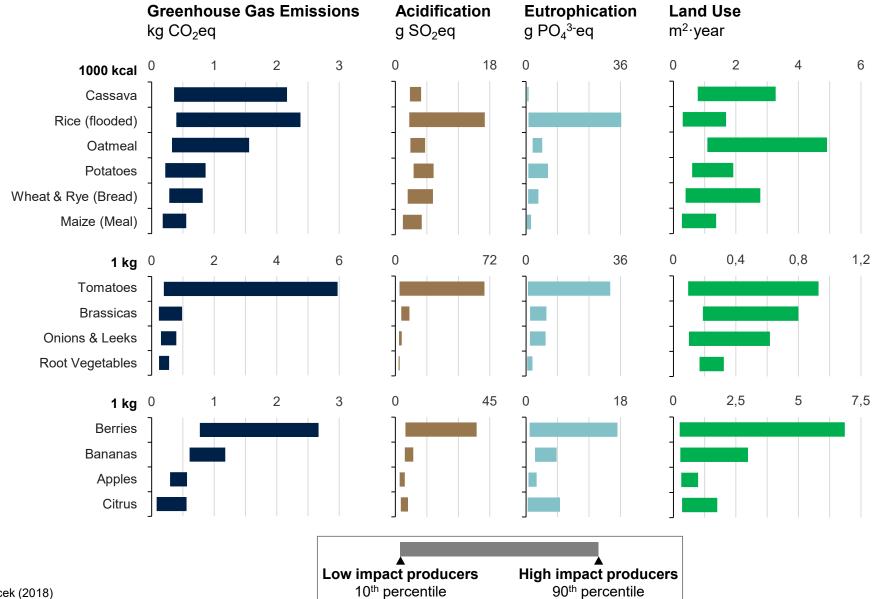




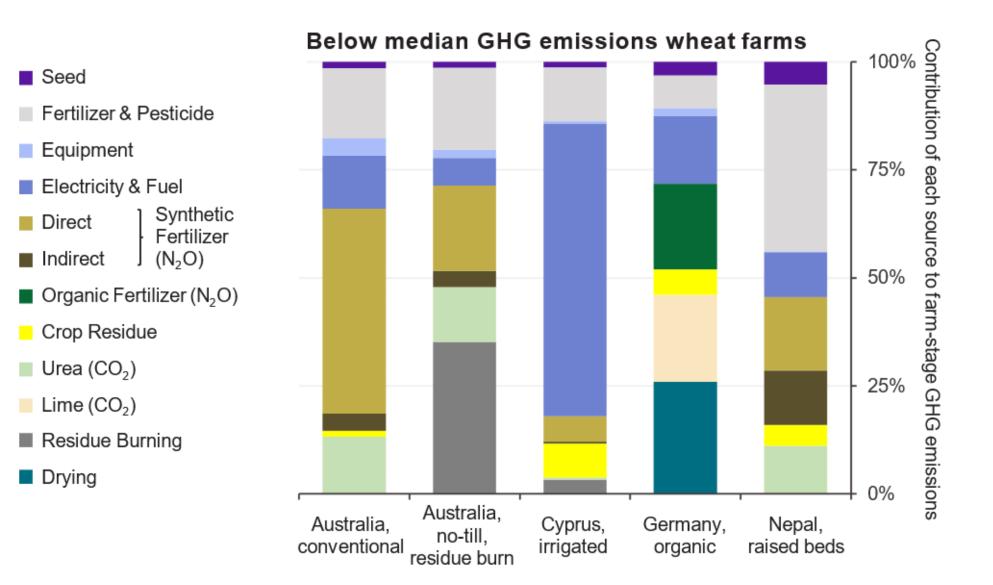




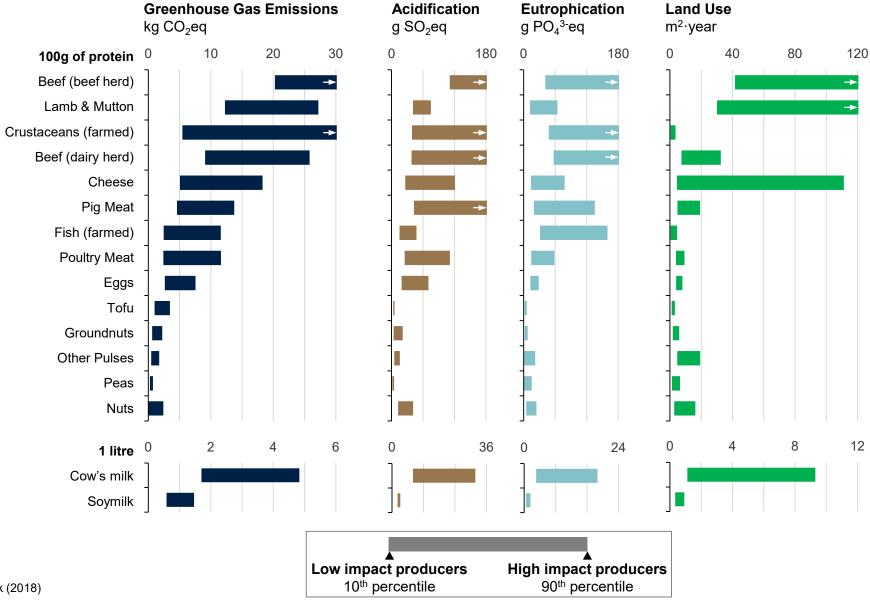
- Large variability across all indicators, including in similar geographic regions
- Implies a targeted mitigation approach will have highest impact



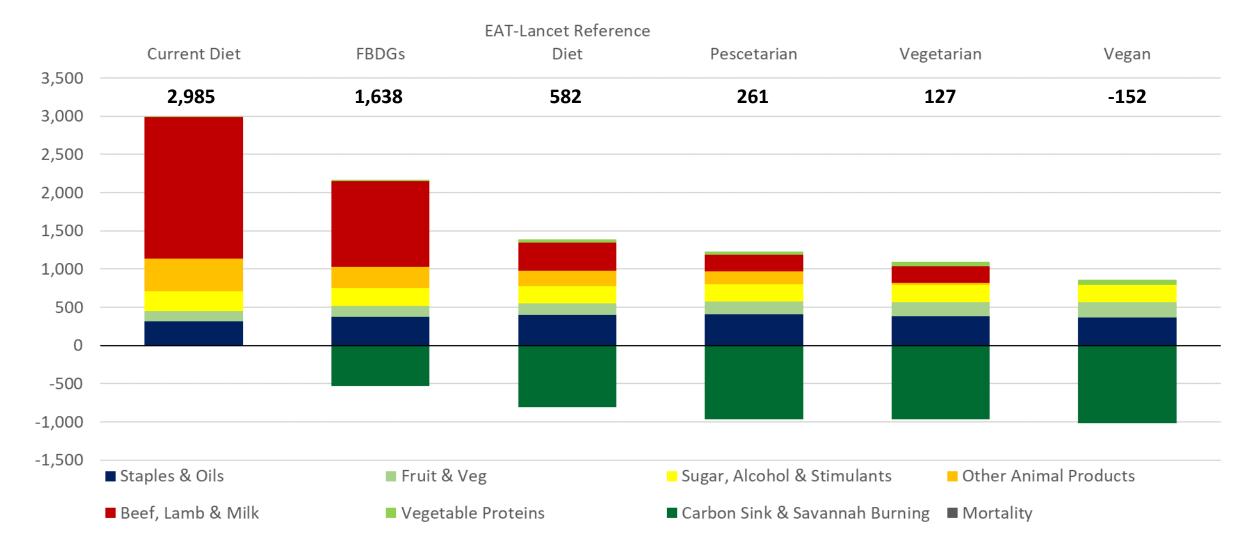
- There are different causes of environmental impact for different farmers
- We need to be flexible and let them deliver mitigation however works best for them



- Large variability across all indicators, including in similar geographic regions
- Implies a targeted mitigation approach will have highest impact

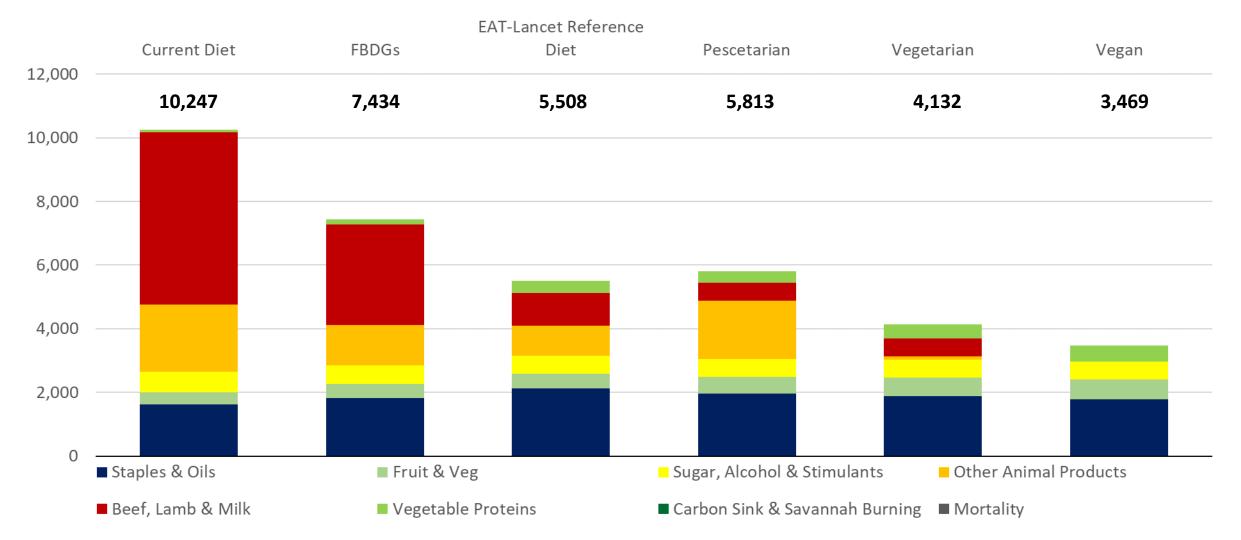


GHG emissions per capita (kg CO2eq, IPCC 2013)



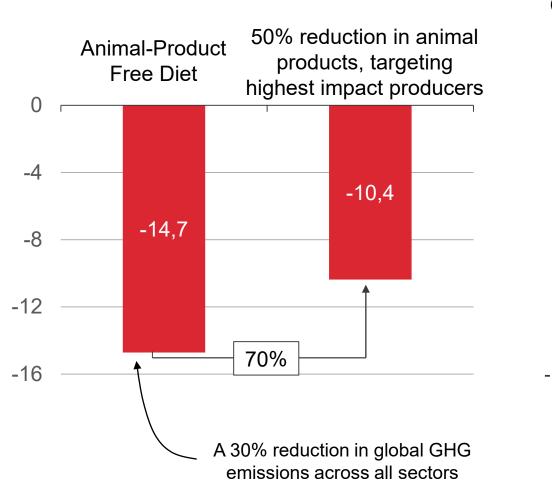
Netherlands: Eutrophying emissions related to food under different diets

Eutrophying emissions per capita (g PO43-eq, CML2 baseline)

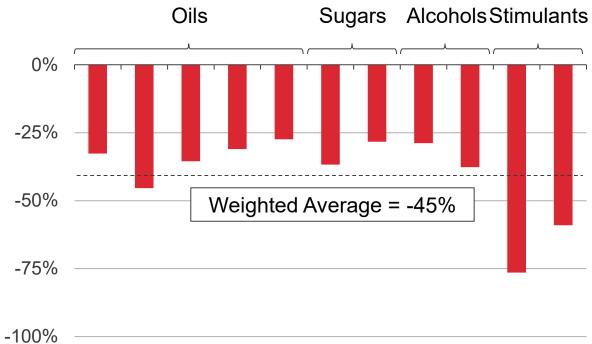


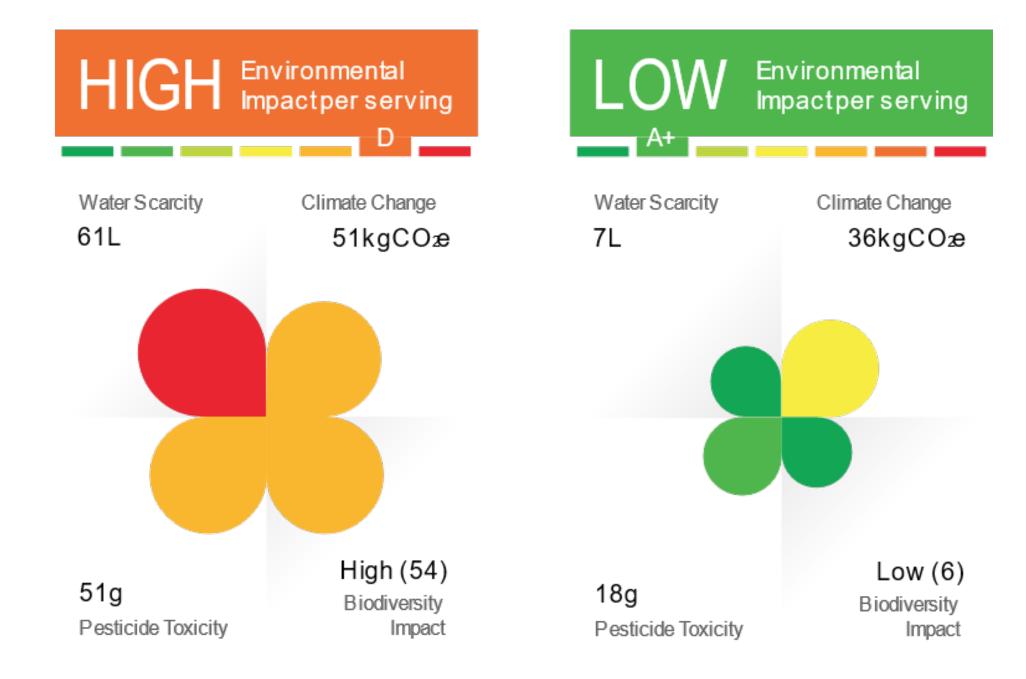
- Benefit of eating less of a high impact product increase by choosing the most sustainably produced
- Consumers can make such choice if value chain channels enable identity preservation

Greenhouse Gas Emissions (Gt CO₂eq)



Change in Greenhouse Gas Emissions Consume 20% less, targeting the highest impact producers





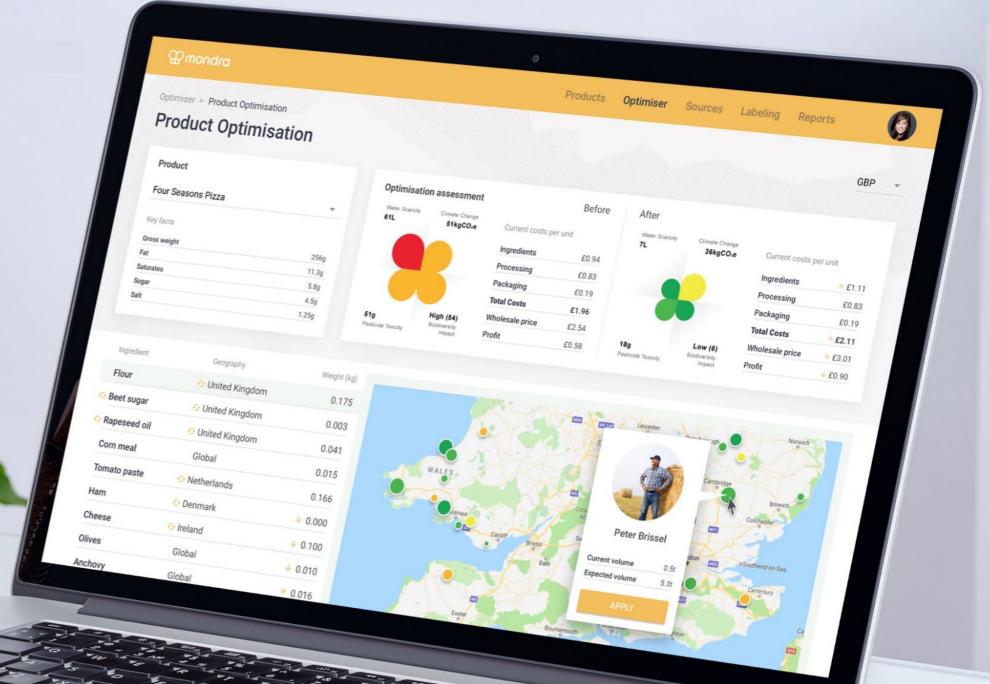
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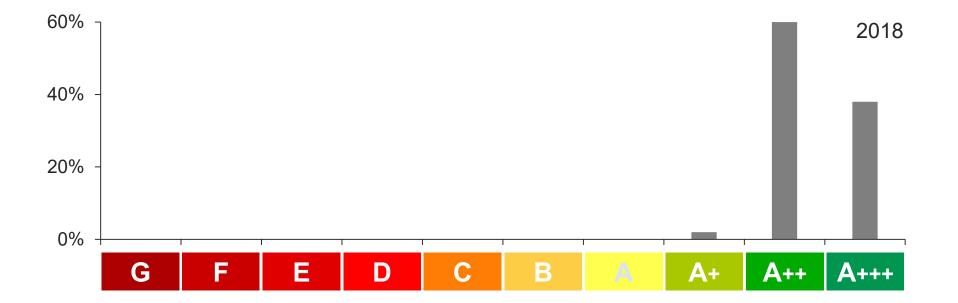
Source: https://mondra.green

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Summary

- 1. Very significant potential to reduce food's impacts
- 2. Mitigation requires a sophisticated approach, engaging full supply-chain
- 3. Mandatory labels are the most promising way to shift the entire system

